

1. An imaging device comprising:
  - a monolithic semiconductor integrated circuit substrate;
  - a focal plane array of pixel cells, each one of said pixel cells comprising,
    - a photogate overlying said substrate capable of accumulating photo-generated charge in an underlying portion of said substrate, and
    - a charge coupled device section formed on said substrate adjacent said photogate having a sensing node and at least one charge coupled device stage capable of transferring charge from said underlying portion of the substrate to said sensing node.